

OIL ANALYSIS REPORT

Sample Rating Trend

ISO

Machine Id

KAESER SFC 30T 8680869 (S/N 1042)

Component Compressor

Fluid KAESER SIGMA (OEM) M-460 (--- GAL)

Recommendation

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

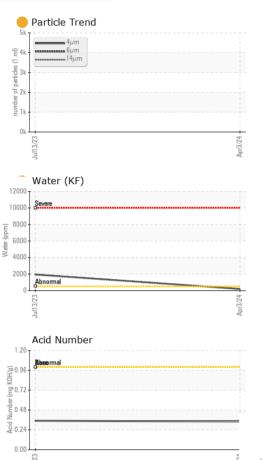
Fluid Condition

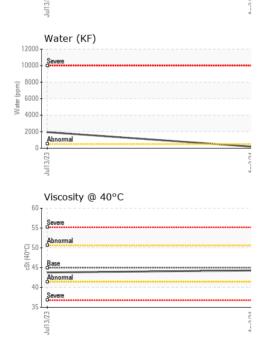
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORM	NATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA017066	KCPA004014	
Sample Date		Client Info		03 Apr 2024	13 Jul 2023	
Machine Age	hrs	Client Info		4931	1601	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		Changed	N/A	
Sample Status				ATTENTION	ABNORMAL	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	1	0	
Chromium	ppm	ASTM D5185m	>10	<1	0	
Nickel	ppm	ASTM D5185m	>3	0	0	
Titanium	ppm	ASTM D5185m	>3	<1	0	
Silver	ppm	ASTM D5185m	>2	<1	0	
Aluminum	ppm	ASTM D5185m	>10	2	<1	
Lead		ASTM D5185m	>10	0	0	
	ppm	ASTM D5185m	>50	3	<1	
Copper	ppm			-	0	
Tin	ppm	ASTM D5185m	>10	<1		
Vanadium	ppm	ASTM D5185m		<1	<1	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	
Barium	ppm	ASTM D5185m	90	<1	0	
Molybdenum	ppm	ASTM D5185m	0	0	0	
Manganese	ppm	ASTM D5185m		<1	<1	
Magnesium	ppm	ASTM D5185m	100	47	36	
Calcium	ppm	ASTM D5185m	0	6	<1	
Phosphorus	ppm	ASTM D5185m	0	2	3	
Zinc	ppm	ASTM D5185m	0	16	4	
Sulfur	ppm	ASTM D5185m	23500	19234	22352	
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	7	8	
Sodium	ppm	ASTM D5185m		17	4	
Potassium	ppm	ASTM D5185m	>20	25	10	
Water	%	ASTM D6304	>0.05	0.019	▲ 0.195	
ppm Water	ppm	ASTM D6304	>500	194	1 950	
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		4900		
Particles >6µm		ASTM D7647	>1300	<mark> </mark> 1426		
Particles >14µm		ASTM D7647	>80	61		
Particles >21µm		ASTM D7647	>20	10		
Particles >38µm		ASTM D7647	>4	1		
Particles >71µm		ASTM D7647	>3	1		
Oil Cleanliness		ISO 4406 (c)	>/17/13	— 19/18/13		
FLUID DEGRADA	TION_	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.34	0.35	
	niy NOR/9	70 HVI D0040	1.0	0.34	0.00	



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Silt scalar Visual NONE NONE NONE Debris scalar Visual NONE LIGHT NONE Sand/Dirt scalar Visual NORML NONE NONE NONE Appearance scalar Visual NORML NORML NORML Emulsified Water scalar Visual NORML NORML NORML Emulsified Water scalar Visual >0.05 NEG Free Water scalar Visual >0.05 NEG NEG Free Water scalar Visual >0.05 NEG NEG FLUID PROPERTIES method imit/base current history1 hist Visc @ 40°C cSt ASTM D445 45 44.3 43.8 SAMPLE IMAGES method imit/base current history1 hist Color no im GRAPHS Ferrous Alloys Viscosity @ 40°C					*Visual	scalar	Yellow Metal
Debris scalar *Visual NONE LIGHT NONE Sand/Dirt scalar *Visual NONE NONE NONE Appearance scalar *Visual NORML NORML NORML HAZY Emulsified Water scalar *Visual NORML NORML NORML NORML Free Water scalar *Visual >0.05 NEG A 0.2% FLUID PROPERTIES method imit/base current history1 hist Visc @ 40°C cSt ASTM D445 45 44.3 43.8 SAMPLE IMAGES method imit/base current history1 hist Color ASTM D445 45 44.3 43.8 SAMPLE IMAGES method imit/base current history1 hist Color no im GRAPHS Ferrous Alloys			NONE	NONE		scalar	Precipitate
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Appearance scalar *Visual NORML NORML HAZY Dodor scalar *Visual NORML NORML NORML NORML Emulsified Water scalar *Visual >0.05 NEG 0.2% Free Water scalar *Visual >0.05 NEG NEG FLUID PROPERTIES method limit/base current history1 hist Visc @ 40°C cSt ASTM D445 45 44.3 43.8 SAMPLE IMAGES method limit/base current history1 hist Color Imit/base current history1 no im Bottom Imit/base current history1 no im Mon-ferrous Metals Imit/base Imit/base Imit/base Imit/base Imit/base Imit Imit Imit/base Imit/base Imit/base Imit/base Imit/base GRAPHS Imit Imit Imit/base Imit/base Imit/base Imit/base Imit/base		NONE	LIGHT	NONE	*Visual	scalar	Debris
Door scalar Visual NORML NORML NORML NORML OUT Scalar Visual >0.05 NEG 0.2% Free Water scalar Visual NORML NORML NORML Free Water scalar Visual NORML NORML NORML NORML Fue Water scalar Visual NORML NORML NORML NORML NORML Fue Water scalar Visual NORML NORML NORML NEG Fue Water scalar Visual NORML NEG NEG Fue Water scalar Visual NORM NEG		NONE	NONE	NONE	*Visual	scalar	Sand/Dirt
Emulsified Water scalar *Visual >0.05 NEG 0.2% Free Water scalar *Visual NEG NEG FLUID PROPERTIES method limit/base current history1 hist Visc @ 40°C cSt ASTM D445 45 44.3 43.8 SAMPLE IMAGES method limit/base current history1 hist Color Image: Source of the second		- HAZY	NORML	NORML	*Visual	scalar	Appearance
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FLUID PROPERTIES method limit/base current history1 hist Visc @ 40°C cSt ASTM D445 45 44.3 43.8 SAMPLE IMAGES method limit/base current history1 hist Color Imit/base current history1 hist Bottom Imit/base current history1 hist GRAPHS Ferrous Alloys Imit/base Imit/base Imit/base Imit/base Imit/Data Imit/base Imit/base Imit/base Imit/base Imit/base Imit/base Imit/Data Imit/base		▲ 0.2%	NEG	>0.05	*Visual	scalar	Emulsified Water
Visc @ 40°C cSt ASTM D445 45 44.3 43.8 SAMPLE IMAGES method imit/base current history1 hist Color no im Bottom Particle Count Terrous Alloys Ferrous Alloys Viscosity @ 40°C		NEG	NEG		*Visual	scalar	Free Water
SAMPLE IMAGES method imit/base current history1 hist Color no im Bottom Particle Count Terrous Alloys Mon-ferrous Metals Viscosity @ 40°C	history	history1	current	limit/base	method	IES	FLUID PROPERT
Color no im Bottom CRAPHS Ferrous Alloys Mon-ferrous Metals Viscosity @ 40°C		43.8	44.3	45	ASTM D445	cSt	√isc @ 40°C
Bottom Ino im CRAPHS Ferrous Alloys Mon-ferrous Metals Viscosity @ 40°C Non- ferrous Alloys Viscosity @ 40°C	history	history1	current	limit/base	method	3	SAMPLE IMAGES
SRAPHS Ferrous Alloys	no image						Color
Ferrous Alloys Particle Count 491,520 122,880 30,720 101 and any	no image						3ottom
Viscosity @ 40°C							GRAPHS
Viscosity @ 40°C		ıt	Particle Cour				Ferrous Allovs
Viscosity @ 40°C							T
Viscosity @ 40°C				122,880			chromium
Viscosity @ 40°C							
Viscosity @ 40°C				30,720			
Non-ferrous Metals			N				1
Viscosity @ 40°C			1	-1 ml			3/23
Viscosity @ 40°C		N		Ap 1,520			llul
Viscosity @ 40°C		•		10 11 480 -		5	
Viscosity @ 40°C			· · · · · · · · · · · · · · · · · · ·	d jo ia 120.1			2
Viscosity @ 40°C							nananananan lead
Viscosity @ 40°C Acid Number							
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Viscosity @ 40°C 4μ 6μ 14μ 21μ 38μ Acid Number				2/24			3/23
Viscosity @ 40°C Acid Number							lul
	38µ 71			4,			Viscosity @ 40°C
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₹ <u>0.24</u>				ag 0.48		*****	Abnormal
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Unique Number : 10967061 Diagnosed : 11 Apr 2024 - Don Baldridge Test Package : IND 2 (Additional Tests: KF, PrtCount) Contact: Service Manager Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Report Id: QUALAV [WUSCAR] 06142253 (Generated: 04/12/2024 01:04:20) Rev: 1

Laboratory

Sample No. Lab Number

> Contact/Location: Service Manager - QUALAV Page 2 of 2

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